

<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
<160> 7
<170> WordPerfect 8.0 (saved in ASCII format)
<210> 1
<211> 2941 base pairs
<212> DNA
<213> Pasteurella Multocida
<220>
<400> pmCS DNS Sequence

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121 aaattatttg agaagtctgc tgaaaacctac gggcgaaaaa tcgttgaatt ccaaattatc
181 aaatgtaaag aaaaactctc gaccaattct tatgttaagtg aagataaaaaa aaacagtgtt
241 tgcgatagct cattagatat cgcaacacag ctcttacttt ccaacgtaaa aaaattaact
301 ctatccgaat cagaaaaaaa cagttaaaaa aataaatgga aatctatcac tggaaaaaaa
361 tcggagaacg cagaaatcag aaaggtggaa ctgttacca aagatttcc taaagatctt
421 gttcttgctc cattgccaga tcatgttaat gatttacat ggtacaaaaa tcgaaaaaaa
481 agcttaggtt taaaggctgt aaataagaat atcggctttt ctattattat tcctacattt
541 aatcgtagcc gtatttiaga tataacgta gcctgtttgg tcaatcagaa aacaaactac
601 ccatttgaag tcgttggc agatgttgtt agtaaggaaa acttacttac cattgtgcaa
661 aaatacgaac aaaaacttga cataaagtat gtaagacaaa aagattatgg atatcaattg
721 tgtcagtca gaaactttagg ttacgtaca gcaaagtatg attttgctc gattctagac
781 tgcgatattgg caccacaaca attatgggtt cattcttac ttacagaact attagaagac
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901 caattcccta acgatccata tttatagaa tcactacctg aaaccgctac aaataacaat
961 ccttcgatta catcaaaagg aaatataatcg ttggatttgg gattagaaca tttcaaaaaa
1021 accgataatc tacgtctatg tgattctccg tttcggttatt ttgttgcggg taatgttgc
1081 tttctaaag aatggctaaa taaagttaggt tggttcgtat aagaatttaa tcattgggg
1141 ggcgaagatg tagaatttgg ttacagatta tttgccaag gctgtttttt cagagtaatt
1201 gacggcggaa tggccatcca tcaagaacca cctggtaag aaaatgaaac agaacgcgaa
1261 gctggtaaaa gtattacgct taaaattgtg aaagaaaaagg taccttacat ctatagaaag
1321 ctttaccaa tagaagattc acatattcat agaatacctt tagttctat ttatatcccc
1381 gcttataact gtgcaaatta tattcaaga tttgttagata gtgtctttaa tcaaactgtt
1441 gtcgatctcg aggtttgtat ttgttaacgat gttcaacag ataatacctt agaagtgtac
1501 aataagctt atggtataaa tcctaggta cgcacatgt ctaaaccaaa tggcggaaa
1561 gcctcagcat caaatgcagc cgtttcttt gctaaaggtt attacattgg gcagtttagat
1621 tcagatgatt atcttggacc ttagtgcagtt gaactgtgtt taaaagaatt tttaaaagat
1681 aaaacgctag cttgtgtta taccactaat agaaacgtca atccggatgg tagcttaatc
1741 gctaattgggtt acaattggcc agaatttca cgagaaaaac tcacaacggc tatgattgct
1801 caccattta gaatgtttac gattagagct tggcatttaa cggatggatt taacgaaaat
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2101 aataaaaccc ctgaatataca agaagaaaatg gatatgttaa aagatcttaa actcattcaa
2161 aataaaagatg ccaaaatcgc agtcaatgtt ttctatccca atacattttt cggcttagtg
2221 aaaaaactaa acaatattat tgaatataat aaaaatataat tcgttattat tctacatgtt
2281 gataagaatc atcttacacc agacatcaaa aaagaaaatat tggcttctt tcataagcac
2341 caagtgaata ttttactaaa taatgacatc tcatattaca cgagtaatag actaataaaaa
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2461 atcattttg ataaatcatga cagccttac gttttttttt acagctatgc ttatatgaaa
2521 aaatatgtat tcggcatgaa ttttcagca ttaacacatg attggatcga gaaaatcaat
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2641 atgaatgtga aaggggcattt acaaggatgttttatgaagt atgcgctacc gcatgagctt
2701 ctgacgatta tttaaaaagaactt catcacatcc tgccaaatcaa ttgatagtgtt gccagaatat
2761 aacactgagg atatttggtt ccaatttgca cttttaatct tagaaaaagaa aaccggccat
2821 gtatttaata aaacatcgac cctgacttat atgccttggg aacgaaaatt acaatggaca
2881 aatgaacaaa ttcaaagtgc aaaaaaaggc gaaaatatcc ccgttaacaa gttcatttattt
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<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
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<160> 7
<170> WordPerfect 8.0 *Software*
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<211> 961 base pairs
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<213> Pasteurella Multocida
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121 vlaplpdhvn dftwyknrkk slgikpvnkn iglsiiiptf nrsrilditl aclvnqktny
181 pfevvvaddg skenlltivq kyeqkldiky vrqkdygyql cavrnlgirt akydfvsild
241 cdmapqqlwv hsyltelled ndivligprk yvdthnitae qflndpylie slpetatnnn
301 psitskgnis ldwrlehfkk tdnrlrcdsp fryfvagnva fskewlkvvg wfdeefnhwg
361 gedvefgyrl fakgcffrvi dggmaihqep pgkenetere agksitlkiv kekvpyiyrk
421 ll piedshih riplvsiyip ayncanyiqr cvdsalnqtv vdlevcicnd gstdntlevi
481 nklygnnprv rimskpnggi asasnaavsf akgyyigqld sddylepdav elclkeflkd
541 ktlacyvttn rnvnpdgsli angynwpefs reklttamia hhfrmftira whldgfnen
601 ienavdydmf lklsevgkfk hlinkcynrv lhgdntsikk lgiqkknhfv vvnqslnrqg
661 inyyynydkfd dldesrkyif nktaeyqeem dmlkdlkliq nkdakiavsi fypntlglv
721 kklnniieyn knifviilhv dknhltpdik keilafyhkh qvnillnnndi sytsnrlik
781 teahlsnink lsqlnlncey iifdnhdslf vkndsyaymk kydvgmnfsa lthdwiekin
841 ahppfklik tyfndndlrs mnvgasqgm fmkyalphel ltiikevits cqsidsvpney
901 ntediwfqfa llilekktgh vfnktstlty mpwerkqlqwt neqiqsakkf enipvnkfii
961 nsitl

<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
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121	aaatttattg	agaagtctgc	tgaaaacctac	gggcgaaaaa	tcgttgaatt	ccaaattatc
181	aaatgtaaag	aaaaactctc	gaccaattct	tatgttaagt	aagataaaa	aacagtgtt
241	tgcgatagct	cattagatat	cgcaacacag	ctcttacttt	ccaacgtaaa	aaaattaact
301	ctatccgaat	cagaaaaaaaaa	cagttaaaaa	aataaatgga	aatctatcac	tggaaaaaa
361	tcggagaacg	cagaaaatcg	aaaggtggaa	ctagtagccca	aagatttcc	taaagatctt
421	gttcttgc	cattgccaga	tcatgttaat	gattttacat	ggtacaaaaa	tcgaaaaaaa
481	agcttaggt	taaagcctgt	aaataagaat	atcggtctt	ctattattat	tcctacattt
541	aatcgtagcc	gtattttaga	tataacgtta	gcctgttgg	tcaatcagaa	aacaaaactac
601	ccatttgaag	tcggttgtgc	agatgatggt	agtaaggaaa	acttacttac	cattgtgcaa
661	aaatacgaac	aaaaacttga	cataaagtat	gtaagacaaa	aagattatgg	atatacaattt
721	tgtgcagtc	gaaactttagg	tttacgtaca	gcaaaagtatg	atttgtctc	gattctagac
781	tgcgatatgg	caccacaaca	attatgggtt	cattcttac	ttacagaact	attagaagac
841	aatgatattg	ttttatttgg	acctagaaaa	tatgtggata	ctcataatat	taccgcagaa
901	caattccta	acgatccata	tttaatagaa	tcactacctg	aaaccgtac	aaataacaat
961	ccttcgatta	catcaaaagg	aaatatatcg	ttggatttgg	gattagaaca	tttcaaaaaa
1021	accgataatc	tacgtctatg	tgattctccg	tttcgttatt	ttagttgcgg	taatgttgc
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1141	ggcgaagatg	tagaatttgg	ttacagatta	tttgccaaag	gtgttttt	cagagtaatt
1201	gacggcggaa	tggcatacca	tcaagaacca	cctggtaaaag	aaaatgaaac	agaccgcgaa
1261	gctggtaaaa	gtattacgct	taaaatttgc	aaagaaaaagg	tacttacat	ctatagaaaag
1321	cttttaccaa	tagaagattc	acatattcat	agaatacctt	tagttctat	ttatatcccc
1381	gcttataact	gtgcaaatta	tattcaaaga	tgtgttagata	gtgctcttaa	tcaaactgtt
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1501	aataagctt	atggtaataa	tccttaggta	cgcacatgt	ctaaacccaa	tggcggaaata
1561	gcctcagcat	caaatgcagc	cgtttcttt	gctaaagggtt	attacattgg	gcagtttagat
1621	tcagatgatt	atcttgagcc	tgatgcagtt	gaactgtgtt	taaaagaatt	ttaaaagat
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1801	caccatttta	gaatgtttac	gatttagagct	tggcatttaa	cggatggatt	taacgaaaat
1861	attgaaaacg	ccgtggatta	tgacatgttc	cttaaactca	gtgaagttgg	aaaatttaaa
1921	catcttaata	aaatctgcta	taaccgcgta	ttacatggtg	ataacacatc	cattaagaaa
1981	ctcggcattc	aaaagaaaaa	ccattttgtt	gtagtcaatc	agtcataaaa	tagacaaggg
2041	atcaattatt	ataattatga	caaatttgc	gatttagatg	aaagttagaaa	gtatatcttc
2101	aataaaaaccg	ctgaaatatac	agaagaaaatg	gatattttaa	aagatcttaa	actcattcaa
2161	aataaaagatg	ccaaaatcgc	agtcagtatt	ttctatccca	atacataaaa	cggcttagtg
2221	aaaaaaactaa	acaatattat	tgaatataat	aaaaatataat	tcgttattat	tctacatgtt
2281	gataagaatc	atcttacacc	agacatcaaa	aaagaaaatat	tggcttctta	tcataagcac
2341	caagtgaata	ttttactaaa	taatgacatc	tcataattaca	cgagtaatag	actaataaaa
2401	actgaggcac	attnaagttaa	tattaataaa	ttaagtcaigt	taaatctaaa	ttgtgaatac
2461	atcatttttgc	ataatcatga	cagcctattc	gttaaaaatg	acagctatgc	ttatatgaaa
2521	aaatatgtatq	tcggcatqaa	tttctcaqca	ttaacacatg	atggatcga	gaaaatcaat

2581 gcgcatccac catttaaaaa gctgattaaa acctattta atgacaatga cttaagaagt
2641 atgaatgtga aaggggcatc acaaggtatg tttatgaagt atgcgctacc gcatgagctt
2701 ctgacgatta ttaaagaagt catcacatcc tgccaatcaa ttgatagtgt gccagaatat
2761 aacactgagg atatttggtt ccaatttgca cttttaatct tagaaaagaa aaccggccat
2821 gtatttaata aaacatcgac cctgacttat atgccttggg aacgaaaatt acaatggaca
2881 aatgaacaaa ttcaaagtgc aaaaaaaggc gaaaatatcc cguttaacaa gttcatttatt
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<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
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<160> 7
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121 vlaplpdhvn dftwyknrrk slgikpvnkn iglsiiiptf nrsrilditl aclvnqktny
181 pfevvvaddg skenlltivq kyeqkldiky vrqkdgyql cavrnlgirt akydfvsild
241 cdmapqqlwv hsyltelled ndivligprk yvdthnitae qflndpylie slpetatnnn
301 psitskgnis ldwrlehfkk tdnrlcdsp fryfscgnva fskewlnkvg wfdeefnhwg
361 gedvefgyr1 fakgcffrvi dggmayhqep pgkenetdre agksitlkiv kekvpyiyrk
421 llpiedshih riplvsiyip ayncanyiqr cvdsalnqtv vdlevcicnd gstdntlevi
481 nklygnnprv rimekpnggi asasnaavsf akgyyigqld sddylepdav elclkeflkd
541 ktlacyvttm rnvnpdgsli angynwpefs reklttamia hhfrmftira whldgfnen
601 ienavdydmf lklsevgkfk hlnkicynrv lhgdntsikk lgiqkknhfv vvngqlnrqg
661 inyynydkfd dldesrkyif nktaeyqeem dilkdlkliq nkdakiavsi fypntlglv
721 kklnniieyn knifviilhv dknhltpdik keilafyhkh qvnillnnndi sytsnrlik
781 teahlsnink lsqlnlncey iifdnhdslf vkndsyaymk kydvgmnfsa lthdwiekin
841 ahppfkklik tyfndndlrs mnvksgasqgm fmkyalphel ltiikevits cqsidsvpey
901 ntediwfqfa llilekktgh vfnktstlty mpwerk1qwt neqiqsakkf enipvnkfii
961 nsitl

<110> Paul DeAngelis
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<130> 5820.601
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<160> 7
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<213> Pasteurella Multocida
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DRAFT - CONFIDENTIAL

<110> Paul DeAngelis
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<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
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<212> DNA
<213> Pasteurella Multocida
<220>
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<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
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<400> Antibody

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